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SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800
Rev. 8/27/01 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, CP4-9C18, 306-5429.

Date	5/3/03	Serial #	161086117	Priority Application Date	12/21/01
Your Name	M. Lewis			Examiner #	
AU	DE200	Phone	305-3943	Room	PLaza 3-3809
In what format would you like your results? Paper is the default.					
<input checked="" type="radio"/> PAPER <input type="radio"/> DISK <input type="radio"/> EMAIL					

If submitting more than one search, please prioritize in order of need.

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPTO DWPI EPO Abs JPO Abs IBM TDB

Other:

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs Nonpatent Literature Other
Secondary Refs Foreign Patents
Teaching Refs

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1-12

Problem Pages 1-4
Solution See " 5 "

Staff Use Only
Searcher: Derek Blalock
Searcher Phone: _____
Searcher Location: STIC-EIC2800, CP4-9C18
Date Searcher Picked Up: 5/6/03
Date Completed: 5/11/03
Searcher Prep/Rev Time: _____

Type of Search	Vendors
Structure (#)	STN
Bibliographic	Dialog
Litigation	Questel/Orbit
Fulltext	Lexis-Nexis
Patent Family	WWW/Internet
Other	Other

FILE 'REGISTRY'

L1 273 S ISOPROPYL ALCOHOL
L2 1 S ISOPROPYL ALCOHOL/CN
L3 1 S METHANOL/CN
L4 1 S GLYCOL/CN
L5 0 S METHYL PYRROLIDONE
L6 21 S METHYL PYRROLIDONE
L7 1 S TIN/CN
L8 1 S INDIUM/CN
L9 0 S SNPN/CN
L10 0 S SNPB/CN
L11 0 S PBSN/CN
L12 1 S TIN LEAD
L13 1687872 S IC OR ICS OR ((INTEGRATED OR LOGIC)(W)(CIRCUIT?)) OR (MICRO)(W)(ELECTRONIC? OR CIRCUIT? OR CHIP?) OR CHIP OR MICROCIRCUIT OR DIE OR LOGIC(W)CIRCUIT? OR WAFER OR MICROELECTRONIC OR DICE
L14 474 S (COPPER OR CU)(2A)(METAL? OR STUD OR PAD)
L15 6 S (COPPER OR CU)(2A)(LAYER? OR FILM? OR COAT?)

FILE 'HCAPLUS'

L16 250703 S IC OR ICS OR ((INTEGRATED OR LOGIC)(W)(CIRCUIT?)) OR (MICRO)(W)(ELECTRONIC? OR CIRCUIT? OR CHIP?) OR CHIP OR MICROCIRCUIT OR DIE OR LOGIC(W)CIRCUIT? OR WAFER OR MICROELECTRONIC OR DICE
L17 51091 S (COPPER OR CU)(2A)(METAL? OR STUD OR PAD)
L18 64340 S (COPPER OR CU)(2A)(LAYER? OR FILM? OR COAT?)
L19 177688 S ELECTRICAL?(W)CONDUCT?
L20 386 S INTERMEDIATE(W)BARRIER OR (UNDER)(W)(BUMP OR PAD) OR UNDERPAD OR UNDERBUMP
L21 168013 S POLYMERIC
L22 54693 S POLYIMIDE
L23 1334 S BENZOCYCLOBUTENE
L24 1561 S POLYBENZOAZOLE
L25 704267 S TIN OR PB OR SN OR INDIUM OR (TIN OR SN)(W)(LEAD OR PB OR INDIUM OR SILVER OR AG OR BISMUTH OR BI)
L26 8077 S ASHING
L27 461016 S ISOPROPYL(W)ALCOHOL OR METHANOL OR GLYCOL OR METHYL(W)PYRROLIDONE
L28 461045 S ISOPROPYL(W)ALCOHOL OR METHANOL OR GLYCOL OR METHYL(W)PYRROLIDONE
L29 171351 S ETCH###
L30 70795 S (SI OR SILICON)(W)(NITRIDE OR N)

L31 8830 S (SILICON OR SI)(W)(OXYNITRIDE OR MONONITRID
E) OR SION OR SILICON(W)NITRIDE(W)OXIDE
L32 0 S (BOJKOV, C OR BOJKOV C OR BOJKOV, CHRISTO
OR BOJKOV CHRISTO)/AU
L33 1 S (BOJKOV, C P OR BOJKOV C P OR BOJKOV,
CHRISTO P OR BOJKOV CHRISTO P)/AU
L34 1 S (COFFMAN, PHILLIP OR COFFMAN PHILLIP OR
COFFMAN P OR COFFMAN, P)/AU
L35 446 S (SMITH, P OR SMITH P OR SMITH, PATRICIA OR
SMITH PATRICIA)/AU
L36 4670 S L16 AND ((L17 OR L18))
L37 86 S L36 AND ELECTRICAL(W)RESISTANCE
L38 0 S L37 AND WINDOW
L39 1 S L37 AND L20
L40 61 S L36 AND L20

FILE 'REGISTRY'

L41 0 S SIN/MF
L42 6 S NSI/MF
L43 0 S (SI AND O AND NITRIDE)/ELS AND ELC.SUB
L44 0 S (SI AND O AND NITRIDE)/ELS AND 3/ELC.SUB
L45 358 S (SI AND O AND N)/ELS AND 3/ELC.SUB

FILE 'HCAPLUS'

L46 66 S L36 AND (L45 OR L31)
L47 59 S L46 AND (L30 OR L42)
L48 0 S L47 AND ELECTRICAL(W)RESISTANCE
L49 23069 S THERMOMECHANICAL OR THERMO(W)MECHANICAL
L50 0 S L49 AND L47
L51 59 S L47 AND L47
L52 0 S L46 AND L49
L53 13 S L37 AND L19
L54 0 S L40 AND L19
L55 7 S L46 AND L19
L56 7 S L47 AND L19
L57 20 S (L53 OR L54 OR L55 OR L56)

FILE 'REGISTRY'

L58 275 S POLYMERIC
L59 353 S POLYIMIDE
L60 0 S BENZOCYLOBUTENE
L61 155 S BENZOCYCLOBUTENE
L62 1 S BENZOCYCLOBUTENE/CN

FILE 'REGISTRY'

L63 0 S POLYBENZOXAZOLE/CN

L64 8 S POLYBENZOXAZOLE
L65 0 S L36 AND ((L58 OR L59 OR L60 OR L61 OR L62)
OR L64 OR (L21 OR L22 OR L23 OR L24))

FILE 'HCAPLUS'

L66 376 S L36 AND ((L58 OR L59 OR L60 OR L61 OR L62)
OR L64 OR (L21 OR L22 OR L23 OR L24))
L67 51 S L66 AND ELECTRICAL?(2A)CONDUCT?
L68 46 S L67 NOT L57
L69 1894 S L16 AND L17
L70 415 S L69 AND L25
L71 3683 S (SOLDER?)(W)(BALL OR BUMP OR POST OR
SPHERE?) OR BGA OR BALLGRID OR BALL(W)GRID OR
POLYMER(W)BALL
L72 47 S L70 AND L71
L73 92 S L70 AND ((L7 OR L8 OR L9 OR L10 OR L11 OR
L12))
L74 16 S L73 AND L71
L75 47 S (L74 OR L72) NOT L57
L76 5324 S L16 AND (L27 OR L28 OR (L1 OR L2 OR L3 OR
L4 OR L5 OR L6))
L77 0 S L76 AND DRY(W)CHEMICAL(W)VAPOR
L78 0 S L76 AND ULTRASONIC(W)ENERGY
L79 15 S L76 AND OXYGEN(W)PLASMA
L80 12 S L76 AND O(W)PLASMA
L81 1 S L76 AND (HYDROGEN OR H)(W)PLASMA
L82 435 S L76 AND L29
L83 39 S L82 AND (SPUTTER? OR PVD OR PHYSICAL(W)VAPO
R(W)DEPOSITION)
L84 39 S L83 NOT (L74 OR L72 OR L57)
L85 106 S L83 OR L74 OR L72 OR L57
SEL PN
L86 56 S (EP930642/PN OR EP978870/PN OR WO2002052642
/PN OR CA2051604/PN OR DE10050049/PN OR DE2601765/PN OR
EP1058944/PN OR EP1207546/PN OR EP533575/PN OR EP678903/PN OR
FR2815359/PN OR GB1476599/PN OR JP02224233/PN OR JP05109673/PN
OR JP05195287/PN OR JP05217966/PN OR "JP06036416 B4"/PN OR
JP06112213/PN OR JP06204186/PN OR JP06295898/PN OR JP07263361/P
N OR JP07297175/PN OR JP07302786/PN OR JP07321097/PN OR
JP07331445/PN OR JP08124920/PN OR JP09237821/PN OR JP11298046/P
N OR JP2000114246/PN OR JP2000188286/PN OR JP2001093928/PN OR
JP2002141348/PN OR JP2002164437/PN OR JP2002278090/PN OR
JP2002505504/PN OR JP2003115535/PN OR "JP2528962 B2"/PN OR
"JP2979284 B2"/PN OR "JP3004165 B2"/PN OR "JP3062393 B2"/PN OR
"JP3098203 B2"/PN OR "JP3162245 B2"/PN OR "JP3208008 B2"/PN OR
"JP3256707 B2"/PN OR "JP3328625 B2"/PN OR JP51086043/PN OR

"JP55035238 B4"/PN OR JP60102750/PN OR JP64000285/PN OR
KR2000017156/PN OR TW387096/PN OR TW393591/PN OR TW432118/PN
OR TW468245/PN OR US2001013504/PN OR US2001023744/PN OR
US2001027843/PN OR US2001044197/PN OR US2002011674/PN OR
US2002013063/PN OR US2002023720/PN OR US2002048969/PN OR
US2002081834/PN OR US2002088547/PN OR US2002094694/PN OR
US2002127565/PN OR US2002136967/PN OR US2002139476/PN OR
US2002155723/PN OR US2002196996/PN OR US2003017580/PN OR
US2003017581/PN OR US2003022477/PN OR US2003026891/PN OR
US2003027328/PN OR US2003032039/PN OR US2003032274/PN OR
US2003059855/PN OR US2003060048/PN OR US2003067079/PN OR
US2003068657/PN OR US2003077660/PN OR US3809625/PN OR

US4097266
/PN OR US4224085/PN OR US5007981/PN OR US5200017/PN OR
US5320707/PN OR US5320709/PN OR US5423974/PN OR US5468686/PN
OR US5578163/PN OR US5597110/PN OR US5747381/PN OR

US5853960/PN
OR US5866481/PN OR US5868854/PN OR US5888309/PN OR

US5900103/P
N OR US5904560/PN OR US5972793/PN OR US6033996/PN OR

US6080636/
PN OR US6106737/PN OR US6194326/PN OR US62

L87 448 S (L33 OR L34 OR L35)
L88 9 S L87 AND L16

FILE 'WPIX, JAPIO'
L89 72 S L86
L90 910812 S IC OR ICS OR ((INTEGRATED OR LOGIC)(W)(CIRC
UIT)) OR (MICRO)(W)(ELETTRONIC? OR CIRCUIT OR CHIP) OR CHIP
OR
MICROCIRCUIT OR DIE OR LOGIC(W) CIRCUIT? OR WAFER OR
MICROELECT
RONIC OR DICE
L91 24041 S (COPPER OR CU)(2N)(METAL? OR STUD OR PAD)

L92 35349 S (COPPER OR CU)(2N)(LAYER? OR FILM? OR
COAT?)
L93 101449 S ELECTRICAL?(W) CONDUCT?
L94 73733 S POLYMERIC
L95 46720 S POLYIMIDE
L96 473 S BENZOCYCLOBUTENE
L97 650 S POLYBENZOAZOLE
L98 175913 S TIN OR PB OR SN OR INDIUM OR (TIN OR
SN)(W)(LEAD OR PB OR INDIUM OR SILVER OR AG OR BISMUTH OR
BI)
L99 187701 S ISOPROPYL(W) ALCOHOL OR METHANOL OR GLYCOL

OR METHY(W) PYRROLIDONE
L100 40024 S (SI OR SILICON)(W)(NITRIDE OR N)
L101 4497 S (SILICON OR SI)(W)(OXYNITRIDE OR MONONITRID
E) OR SION OR SILICON(W) NITRIDE(W) OXIDE
L102 2 S (BOJKOV, C OR BOJKOV C OR BOJKOV, CHRISTO
OR BOJKOV CHRISTO)/AU
L103 0 S (COFFMAN, PHILLIP OR COFFMAN PHILLIP OR
COFFMAN P OR COFFMAN, P)/AU
L104 216 S (SMITH, P OR SMITH P OR SMITH, PATRICIA OR
SMITH PATRICIA)/AU
L105 9110 S L90 AND ((L94 OR L95 OR L96 OR L97))
L106 64 S L105 AND (OXYGEN OR O)(W)(PLASMA)
L107 0 S L106 AND (HYDROGEN OR H)(W)(PLASMA)
L108 3 S L105 AND (HYDROGEN OR H)(W)(PLASMA)
L109 71181 S (SPUTTER? OR PVD OR PHYSICAL(W) VAPOR(W)
DEPOSITION)
L110 7 S L106 AND L109
L111 3815 S L90 AND L99
L112 14 S L111 AND (OXYGEN OR O)(W)(PLASMA)
L113 1 S L111 AND (HYDROGEN OR H)(W)(PLASMA)
L114 12 S ((L102 OR L103 OR L104)) AND L90
L115 25 S L108 OR L110 OR L112 OR L113
L116 12 S L114 NOT L115